### NATIONAL TRANSPORTATION SAFETY BOARD

IN RE:

THE EL FARO INCIDENT OFF : NTSB Accident No. THE COAST OF THE BAHAMAS ON : DCA16MM001

OCTOBER 1, 2015

Interview of: CAPTAIN

Thursday, January 21, 2016

U.S. Coast Guard Office Portland, Maine

## **BEFORE:**

BRIAN YOUNG, NTSB TOM ROTH-ROFFY, Investigator-in-charge, NTSB



This transcript was produced from audio provided by the National Transportation Safety Board.

\*Via Teleconference

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PRESENT ON BEHALF OF THE INTERVIEWEE:

#### P-R-O-C-E-E-D-I-N-G-S

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2	(1:05 p.m.)
3	MR. YOUNG: The time is 1305 on Thursday,
4	January 21, 2016. This is Brian Young with the
5	National Transportation Safety Board. We're conducting
6	an interview at Coast Guard Headquarters of Captain
7	We're going to go around the room and
8	introduce ourselves in order for the transcription.
9	CAPT. This is Captain
10	I'm the commanding officer of the Coast Guard's Marine
11	Safety Center.
12	LT. Lieutenant
13	attorney for the witness.
14	CAPT. Captain
15	I'm the chairman of the Coast Guard's Marine Board of
16	Investigation (Inaudible) El Faro.
17	MR. O'DONNELL: Louis O'Donnell, assistant
18	chief surveyor with ABS.
19	MR. Jeff U.S. Coast
20	Guard civilian. I'm the Coast Guard member of the
21	(Inaudible).
22	LCDR. Lieutenant Commander
23	Michael I'm a traveling marine inspector,
24	but I'm part of the nautical operations group.
25	LCDR. Commander U.S. Coast

1	Guard traveling marine inspectors, and I am the Coast
2	Guard member on the (Inaudible) group.
3	MR. ROTH-ROFFY: Tom Roth-Roffy,
4	investigator in charge, National Transportation Safety
5	Board.
6	MR. YOUNG: On the phone?
7	LCDR. You've got Commander
8	with the Coast Guard, a member of the marine
9	board of investigation, and on the NTSB's nautical
10	operations group.
11	MR. YOUNG: Captain, thank you very much for
12	your time today and just for your acknowledgement that
13	we are recording this and just want to let you know.
14	CAPT. Understood, thank you.
15	MR. YOUNG: Thank you very much. Again,
16	thanks for being here today. If you don't mind just
17	starting out maybe describing your role with the MSC
18	and with the ACP program, what your job functions are,
19	please.
20	CAPT. Again, this is Captain
21	I'm the commanding officer of the Coast
22	Guard's Marine Safety Center. I took command of the
23	Marine Safety Center in April of 2015. The Coast
24	Guard's Marine Safety Center is the central technical
25	plan review point for the Coast Guard's marine safety
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or prevention program. We have an office of about 70 engineers spread across five different divisions that deal with hull, machinery, tank vessel and offshore issues. They deal with tonnage, and then also vessel security. We have a number of different stakeholders for the services that we provide. One of the primary stakeholders is the Coast Guard field units, the field inspectors that are out there (Inaudible) project is going through inspection by the local OCMI, the officer in charge of marine inspection.

There's plans that need to be reviewed for compliance with the regulations. Those plans go to the Marine Safety Center. The Marine Safety Center then reviews those plans. The engineers there draft a response and send it out to the industry and to the inspectors, and then the inspectors verify it. With regard to ACP, the Marine Safety Center is the central technical point for oversight of the plan review work that's done by authorized class societies on our behalf.

We liaise with the engineering offices and plan review offices within the different authorized class societies to oversee the work that they do on our behalf. On any given year, the Marine Safety Center is responsible for about 18,000 different plan reviews

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	Come through the Marine Salety Center. About 10,000
2	a little more than 10,000 last year go through an
3	ACS first, an authorized class society first. Our work
4	is kind of divided into about 8,000 things that we're
5	directly responsible 8,000 different plan reviews
6	that we're directly responsible, and about another
7	10,000-11,000 that go through an ACS (Inaudible)
8	oversight.
9	MR. YOUNG: Could you please define and give
10	some examples of plan reviews?
11	CAPT. Sure. The regulations set
12	out a number of things that are required to be
13	reviewed. It could be general arrangements. It could
14	be structural fire protection. It could be electrical,
15	one-line diagrams, stability, structures, cargo
16	containment, those types of things.
17	MR. YOUNG: Would that be on new
18	construction vessels or vessels that are entering into
19	ACP?
20	CAPT. Any time a vessel needs to be
21	inspected and there's plans that need to be developed
22	as part of that, whether it's a modification or new
23	construction or reflag or any of that, any time that
24	there's plans generated and they need to be reviewed,
25	it gets done at the Marine Safety Center, so it's not

specific to just new or modifications.

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MR. YOUNG: Typically, if there was a modification done to a vessel, the drawings and the plans would come through either the ACP first, and then through the Marine Safety Center, and your department would actually look through the drawings and ensure that they were meeting all the current regulations?

than what you just stated, but the idea is similar. If the vessel's not enrolled in ACP and is undergoing a modification or is undergoing new construction, then what typically happens is the naval architects or the yard or the owners that are involved in the project or the engineers understand what plans they have to submit to the Marine Safety Center for review, in order for their project to get certificated.

The industry folks will submit their plans to the Marine Safety Center for these vessels that are under review. We take action to review those plans.

We write a letter. We send it back to the submitter.

We copy our field inspector, and they will take action at the field level to verify that those plans comply.

Under ACP, what happens is if the vessel is enrolled in ACP, then the authorized class society is responsible for doing that plan review, and then we

choose what, if anything, we oversee or conduct
oversight on for those plan review activities. We have
an internal process that's set up to identify to
ensure that the class societies are notifying us when
they've done work on our behalf for us to review the
work that's been done on our behalf and identify and
select what work we want to oversee or conduct
oversight on, and then to ensure that once we've made
that selection, we actually get those plans that we
conduct oversight on. Then we do our review, and then
communicate that review back to the authorized class
society. That's the way that process works when it
happens.

MR. YOUNG: Is that a sampling of plans that are reviewed?

CAPT. It is a sampling of plans that are reviewed. As I mentioned, 2014, for example, I think we had a little over 10,000 notifications from authorized class society of different plans that were reviewed on our behalf. We selected just about 4 percent of those plans and conducted review on those plans.

The notification that we get from the authorized class societies, there's not a straight correlation between their notification and how we

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divide up our work. We converted those -- I think it was about 470 and some notifications last year. We converted that into about 680 activities that we're responsible for. The activities to notifications just differ based on how we track our work internally for our accounting of staff hours and things like that.

When we identify discrepancies -- I guess when we select something for oversight, we can either do no oversight on it -- and we could come up with a finding of no oversight for a number of reasons. This process is somewhat manually intensive, in that the engineers at the authorized class society that do the review, they put into a spreadsheet what they've done on our behalf.

That spreadsheet has a limited snapshot of information. It's got categories of what subchapter, what project, that kind of thing, what vessel. But when we actually get those plans, it might be a detailed issue that's not subject to our review. It might be dealing with material specifications that are outside the scope of our review, per the regulations. That would be a case where we do no oversight once we get the plans. Or we could have oversight with no findings, or oversight with findings. Then with findings, there's two categories of findings.

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There's non-conformities and major non-conformities, the difference being the severity of the issue that's been identified. When we identify non-conformities, we've instructed our staff that the first thing to do is pick up the phone and talk to the staff engineer or the engineer at the class society to make sure that before we send out a non-conformity that we understand what the review has done, how they did We've got all the information that we need the review. to support that finding. Then after they've talked to them on the phone, then if it's a non-conformity, then we issue a non-conformity to class society that goes into a database that we track, they track, and we follow it through in the process until it's been resolved. In some cases, it involves changes to their processes and procedures. In some cases, it involves corrective action on the vessel (Inaudible) vessels, themselves.

MR. YOUNG: How are your engineers selected and trained at the Marine Safety Center?

about 70 staff. That includes office assistants and some vessel security contractors, as well. We probably have about 60 engineers on staff. They're a mix of civilian and active-duty folks. The overwhelming

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majority have master's degrees in engineering, many have professional engineering licenses.

We have a qualification process in place for our staff engineers. Obviously through our civilians, we look for people that are experienced, may have merchant mariner background or understanding of the industry or deep understanding of the discipline. In our active-duty workforce, we may get folks with experience as inspectors, and we may get folks that have no experience in inspectors, just Coast Guard officers maybe were an engineer or a deck watch officer on a ship, and then went to grad school. We have a wide variety of staff that come in at different experience levels. What we want to do is make sure that before they take final action on a plan, they have the necessary training and experience to do that.

We have a couple different ways by which we get at that. First is a qualification process for the review of certain plans, so they'll go through a professional qualification standard, internally develop material based on expertise, this is what you need to know in order to be able to review and sign off on these plans. Then they'll go through a board of qualified people at the unit, and then they will be qualified and able to review the plans.

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We also try and get at that by doing a quality assurance review at different steps in the When a plan comes in, it gets assigned to a staff engineer. Before that plan goes out, there's a branch chief that may have between three and eight staff engineers working for him that does quality review on that submission, or some of our branches have a peer review process before it gets to the branch chief, where you're either doing your own review, or you're doing peer review on your peers. But then the branch chief is ultimately responsible to ensure that the quality of the submission -- it's been done They sign out a letter in the majority of the cases for the letters that are going out to the industry or to the submitters and say what needs to get done.

We have fits and starts on tracking and training those qualifications and all the different skills and specific classes that they should have in order to do it. We have a program under development to continuously improve that, but the core of it is the basic qualification board that they go through, the peer review, the branch chief review to oversee the work that they're doing.

MR. YOUNG: Does the staff and the engineers

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2 stick --Yes. No, they absolutely 3 CAPT. rotate through. First of all, our civilians can 4 5 obviously come and go as market demands dictate and 6 their personal lives dictate. The military staff are 7 there for about three to four years. They get a 8 special -- if they have an advanced degree and they've 9 been at the Marine Safety Center or they've been at the headquarters policy shop or at one of our national 10 11 centers of expertise that deals with technical work, they get a special designator assigned to them, so then 12 they're eligible to come back for branch chief or 13 14 division chief or command (Inaudible) positions later 15 on in their career. There's a standardized program 16 that's run by the Coast Guard's Force Command that 17 provides that officer a specialty designator that 18 associates them with this program and allows us to 19 track them. 2.0 That's a very nice overview of MR. YOUNG: 21 plans review, but we'll go around the room, while we're 22 on this topic, if anyone else had any questions. 23 Captain? 24 I don't have any questions. CAPT. 25 MR. YOUNG: Lou?

rotate through, or once they're at MSC, do they kind of

1	MR. O'DONNELL: No further questions.
2	LCDR. Captain, Lieutenant
3	Commander Just to clarify for everybody on
4	a couple things. Captain, does your office have any
5	supplemental guidance, work instructions, or tactical
6	notes that are internal to your office for the purpose
7	of the ACP reviews?
8	CAPT. Sure, we do. Externally, we
9	have a marine technical note, MTN-0403. It's available
10	on our website, Marine Safety Center Technical Note
11	0403. It's available on our website. It describes how
12	we do oversight. Internally, we have a business
13	procedure, BP-10, that describes the process by which
14	oversight is selected, acted on, and tracked through
15	resolution of any issues. Then when you get down into
16	an individual system, we have work instructions for the
17	staff on how to review a CO2 system, how to review an
18	engineering one-line diagram. Many of those are on the
19	website, as well. They're plan review guides.
20	LCDR. Just another question,
21	Captain. How long have the ACSs, such as the American
22	Bureau of Shipping, been performing delegated functions
23	on the Coast Guard's behalf for plan review?
24	CAPT. If we're talking about ACP,
25	since just prior to 1995. I guess there were some

1 pilot programs before NVIC 295 was published. If we're 2 talking about ABS, in particular, they had the authority to do other work on our behalf prior to 1995. 3 First of all, they had the authority to 4 issue Load Lines on the Coast Guard's behalf, dating 5 6 back to the early '80s. They had the authority to do 7 plan review to the C.F.R. regulations for U.S. flag 8 vessels under NVIC 1082, dating back to a little prior 9 to 1982. Then they've had the authority to do stability reviews on the Coast Guard's behalf, I think 10 the first one was NVIC 384, but superseded by NVIC 397. 11 There's a number of different delegated authorities to 12 the parties (Inaudible). 13 14 LCDR. Another question. You 15 mentioned, Captain, that sometimes when you do oversight of one of the ACS plan reviews, that when you 16 17 bring it over to your office, then you have to split it 18 up differently. I assume that's due to organization 19 differences between ABS technical and the Marine Safety 2.0 Center. Can you maybe talk about what those 21 differences are and if they cause any problems for the 22 ACP program? 23 I don't know that I have a CAPT. 24 good specific example of that, Obviously, our business practices have emerged for different needs. 25

We came up with a way of classifying plans to be able to track our workload and manage our staff hours. It's different than what ABS uses. It's different than what DNVGL uses.

It's different than what Lloyd's Register In terms of how that affects our and others use. review, there are probably times when an authorized class society may have an offshore division looking at the majority of a project, and they're handling several of the issues, the hull issues, some of the machinery issues, some of the electrical issues. When it comes in, we've divided our work up into technical expertise. So maybe from time to time, the electrical folks have to deal with somebody else within the authorized class society organization, other than the electrical people that they're typically dealing with, but I don't have a good example that comes to mind of when that happens. It's about folks' familiarity with each other is maybe where some of the (Inaudible) points are, or the familiarity of a class society reviewer with our folks. LCDR. (Inaudible) one more

follow-up, Lieutenant Commander again. As far as the oversight of the ACS, as you mentioned the ability to issue non-conformities. Can you share with us any metrics or trends on the performance of the ACS

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with regard to receiving non-conformities and discuss whether that has had an ability to turn around the ACS on some plan review admissions?

As I mentioned, if you look CAPT. at the total scope of the work that the Marine Safety Center's responsible for, it's about 18,000 plans per year, about 10,000 of those go through an ACS beforehand. We select, on average, about 4 percent or What we have found in the last two years so of those. is we've probably -- we've found non-conformities on --I think in 2014, I think it was around 38 percent of what we selected we found some comment on that. In the year prior to that, maybe it was in the 20s or so. Those trends are driven, in part, by a couple significant projects, where multiple non-conformities were issued, or by a particular issue which was spread over a number of vessels that caused a number of non-conformities to be issued. I think one vessel accounted for 92 of the observations -- roughly 92 of the observations on conformities -- or 92 of the comments.

I don't know what the breakdown, off the top of my head, between non-conformities and observations were, but 92 of the comments were due to one vessel in the year 2014. In the year 2015, 84 of the

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non-conformities were due to one issue spread on 84 different vessels. What I would say to that is that we select a very small number of the overall work that's done. We're only able to perform an oversight on a very small number of it -- a small amount of that.

We do have a risk-based process for focusing in on what we want to oversee. So on the one hand, we are targeting higher-risk issues, and those risks -- in our risk-based process, those could be identified either by areas that were having problems, the classes that we've detected problems with in the past, or they could be just vital safety systems, life saving, fire safety, that kind of stuff. That's what drives our risk-based targeting. We're selecting a very small number. We've seen a sizable number of problems that have broken down on it and have generated non-conformities. The work to get the class societies to address those non-conformities has generally been We've put them into the process, and we get effective. updated plan review sheets that they have, or they update their internal processes to address those, or they've taken corrective action and we're tracking through the corrective action that's taken onboard the vessels. We're looking at a small number. seeing error bars on that small number that we're

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looking at.

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on that. That does seem like a large number. Have you seen a trend due to the non-conformity system to decrease that percentage over the years, or has it remained high like that?

non-conformities, it's only the last three years of data that I'm talking about. I don't know what Marine Safety Center's non-conformity rate or the ACS error rate or non-conformity rate was seven years ago. We have been looking at it closely for the last three years.

(Inaudible.)

regards to ACP vessels, is there any circumstance where modifications would be made to the vessels or alterations could be made that would require or trigger class to review that modification and not have that plan submitted to MSC for review?

CAPT. I think to the first part of your question, so if modifications made to a system onboard the vessel, it affects class, SOLAS, or the supplement, in terms of the regulations, then they're absolutely responsible to review those plans and that.

They're also responsible to notify us that they have conducted this review. We took a closer look at notifications starting two years ago, and we found that there was a pretty big gap in the time from when they took their action to when they notified us. So we put a lot of effort into shrinking down that gap of the time from notification -- or the time from work done to notification.

I think two years ago, it was around 70 Now it's under 14 days, probably under ten days, I think. Then we also identified, as we started looking -- we also identified things where we've requested it, but because of their processes, our processes, we didn't have any record of getting it, so we wanted to make sure that we didn't run into those problems again. Within the last three years, we put a process in place so that every time something's requested, it goes on their backlog, it goes on our backlog, and we track that thing through until we've got it and logged it out. There shouldn't be a case today where they've taken action on our behalf and they haven't notified us under the policy. Under the responsibility that they have under NVIC 295, they're required to notify us when they've approved plans on our behalf.

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But we don't have a definitive check and balance in place to ensure that happens at the Marine Safety Center because our eyes and ears on the ground, so to speak, are the field inspectors, the OCMI that's out there making sure that this process is working, Other ways where we might trap errors is if we're working on a vessel, we notice -- we get plans in one area, we don't get plans in another area. That might prompt us to call the ACS and say, "I notice you've made this modification to the cargo hold, but you haven't submitted any plans regarding this. Have you done any of the work?" There's unknown unknowns out there, I quess is the way to put it. We don't know that they did -- the area that is, I think, our weakest, in terms of the oversight, is we don't know the plan that was reviewed on our behalf that they never told us about. We don't have a way of finding that out. But in a perfect world, they should tell you about all things (Simultaneous speaking)? By the policy, absolutely. CAPT. Is there any circumstance, LCDR. Captain, where, at the local level, a plan review would

take place from the Coast Guard, from the OCMI or from

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a marine inspector (Simultaneous speaking) approve something submitted to them by class?

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Subchapters, absolutely, plan review happens at the field level. So there are cases where plans could be reviewed and approved at the field level, and there are requirements -- fire control plan's a good example of a plan that's reviewed and approved at the field level.

Did that get at your question?

ACP, is there any circumstance where anyone other than an ACS would review a plan or a PE (Phonetic) outside of ACS, or somebody in the local level would do it?

the ACS is still responsible for approving that plan on behalf of the Coast Guard. We do have a program where we recognize the licensure that goes with becoming a professional engineer, NVIC 1092, and under NVIC 1092, a licensed professional engineer can submit a plan to the Coast Guard or to an ACS, and the ACS can -- or class societies can also use NVIC 1092 to submit stuff to us, but the responsibility for approving the plan still rests with the Coast Guard under NVIC 1092, or if a NVIC 1092 submission went into the ACS and the ACS was acting on our behalf, it would still rest with the

1	ACS to approve the plan.
2	LCDR. Thank you. I'm good.
3	MR. ROTH-ROFFY: Tom Roth-Roffy, NTSB, just
4	a few follow-up questions. Going back to your
5	statistics that you provided earlier, I believe you
6	said 18,000 (Inaudible) reviews, which 10,000 go to ACS
7	first, of which of those 10,000, you do a 4 percent
8	(Inaudible) you mentioned the number of notifications
9	and activities. You've discussed your selection matrix
10	for which plans you review and the number of
11	non-conformities. What about major non-conformities?
12	You haven't mentioned those as a percentage of the
13	total number of errors (Inaudible).
14	CAPT. I don't have those off the
14 15	CAPT. I don't have those off the top of my head, Tom. That's something that we could
15	top of my head, Tom. That's something that we could
15 16	top of my head, Tom. That's something that we could provide if
15 16 17	top of my head, Tom. That's something that we could provide if  MR. ROTH-ROFFY: (Inaudible.)
15 16 17 18	top of my head, Tom. That's something that we could provide if  MR. ROTH-ROFFY: (Inaudible.)  CAPT. I know we would have the data
15 16 17 18 19	top of my head, Tom. That's something that we could provide if  MR. ROTH-ROFFY: (Inaudible.)  CAPT. I know we would have the data for the last three years. Prior to that, I'm not sure
15 16 17 18 19 20	top of my head, Tom. That's something that we could provide if  MR. ROTH-ROFFY: (Inaudible.)  CAPT. I know we would have the data for the last three years. Prior to that, I'm not sure how accessible the data information would be.
15 16 17 18 19 20 21	top of my head, Tom. That's something that we could provide if  MR. ROTH-ROFFY: (Inaudible.)  CAPT. I know we would have the data for the last three years. Prior to that, I'm not sure how accessible the data information would be.  MR. ROTH-ROFFY: If I understand correctly,
15 16 17 18 19 20 21 22	top of my head, Tom. That's something that we could provide if  MR. ROTH-ROFFY: (Inaudible.)  CAPT. I know we would have the data for the last three years. Prior to that, I'm not sure how accessible the data information would be.  MR. ROTH-ROFFY: If I understand correctly, of the 4 percent of the plans you've selected, of the
15 16 17 18 19 20 21 22 23	top of my head, Tom. That's something that we could provide if  MR. ROTH-ROFFY: (Inaudible.)  CAPT. I know we would have the data for the last three years. Prior to that, I'm not sure how accessible the data information would be.  MR. ROTH-ROFFY: If I understand correctly, of the 4 percent of the plans you've selected, of the ones you reviewed (Inaudible) finding between 20 and 38

MR. ROTH-ROFFY: In the last two years.

You've implemented some procedural changes to reduce that, right? What about the other 96 percent of the plans that you don't review? Can it be assumed that you would have similar error rates, non-conformity rates on those?

That's a difficult assumption CAPT. to make because we do a targeted review of what we want to select and not all reviews and plans are created For several years, now several decades, class has really been an expert in structural reviews. level of knowledge and rule base that was developed has really derived from the work that class has done, as opposed to the Coast Guard. That would be a system where we might not find the same level of errors in In things that are maybe not inherently part of class, maybe they're just part of the supplement or part of SOLAS rules with flag state, with U.S. interpretations, or part of the C.F.R., in the case of 1082, that might be an area where the error rate might be higher because of the need to train and for us to make sure that we're communicating the right standard, for the class society to make sure that they're training and holding the reviews accountable to that standard. I'm not so sure that you could say that it's

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1 a comparable error rate across all areas, but it's an 2 unknown. It's an unknown. MR. ROTH-ROFFY: 3 4 what I was going to say. You really don't know. 5 say you've got some kind of a selection process to pick 6 the ones that were most important to you, but you do it 7 in 4 percent of the total number. What percent of the 8 critical ones do you do? Is it half of them, or is it 9 lower, if you understand the question? I think I understand the 10 CAPT. 11 question. I don't know the statistics on that. That is not something that we track in that way. 12 (Inaudible) perhaps I'm not 13 MR. ROTH-ROFFY: 14 asking the question properly. If you have 10,000 plans 15 that are reviewed under the ACP by the ACS, maybe 500 16 of them are in this critical safety area. 17 percentage of that 500 (Simultaneous speaking) 18 understanding the guestion. 19 Sorry, that was my 2.0 understanding of the question. Let's say for a moment 21 that we identified a CO2 system as a critical area. 22 The question is what percentage of CO2 systems are we 23 reviewing? In our risk-based approach, we don't have 24 any hard and fast targets for how many systems -- how

many plans that we need to pull or how many systems of

a particular type that we need to pull. We don't track how many of the high risk areas we have pulled. We could go back and reverse engineer an answer to that question because we have all the notifications what the systems were. We have what we pulled, but I've never looked at that metric.

MR. ROTH-ROFFY: Continuing on with these errors or non-conformities and the process, could you talk more about what sort of changes you've made to the process to improve or reduce the error rate?

CAPT. Yes. My focus is on the plan The error rate that we're talking about is review. dealing with plan review. You talked with Captain earlier today, so I just want to separate those two programs a little bit. We're both operating under the same NVIC, but we're executing a little bit different responsibility. There are a number of things that we've done to improve our oversight of ACS. First is getting better control over the data and the If you went back to the late '90s, into information. the early 2000s, we were actually getting hard copies of the plans that were reviewed and approved on our behalf. Just stacks of plans would be coming in to the unit on a regular basis. Then the process between entering those into some sort of tracking system or

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entering them into a record-keeping system was not as easy as it is today with the controls that we can put in place.

Around 2007 time frame, we worked to put an improved notification system in place, and selection system, so that we could make sure -- again, make it easier for the ACSs to notify us of work done on our behalf and make it easier for us to track the results of that. We put out an instruction to them, NTN-0403 talks about it, as it's been updated to talk about it. They put together a spreadsheet, and they put all their information in the spreadsheet.

Once that spreadsheet comes in, we have an oversight coordinator that takes that information and manipulates into a way that our database can handle it and farm it out to everybody to do their work. At each step of the way, it tracks that information. Now the gaps that we've been trying to close, and that we have closed over the last few years, is the gap from notification to -- or from completion of work to notification to selection to action taken on it, so shrinking down that time. That's a big part of making sure when we do take action, we have a better handle over the work that's done. Then the other part of that tracking process, by automating that system and by

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having the better recordkeeping, we've also been able to, when we identify non-conformities, track them through to completion.

Then I think what your other question -- or what maybe the meatier question was getting to is what's happening on that back end? You've identified something. What are some of the steps that have been taken to resolve it? First thing is we meet quarterly with the ACSs to review their performance and discuss problems that have come up either through the non-conformities, or just through communications. We have a quarterly meeting with them to go over their performance and statistics.

We do staff exchanges, so that our staff engineers go on site to the class societies and work for a week, so that they can better understand how we do our work, we can better understand how they do their work. We bring the class society reps -- I don't think we did any last year. I might be wrong about that, though. We bring a class society rep into the Marine Safety Center, do a similar staff exchange. When it gets to a specific issue, all the class societies have processes by which they manage their business and corrective actions are identified and reviewed by the appropriate person and resolution is taken. That's all

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part of their overall quality management system. we have strived to do is make sure that our issues get input into their quality management system, and we see some tangible result out of their quality management system before we close our issue. So in some cases, these non-conformities might just be resolved by updating their instructions to their engineers. In other cases, like I said, it involves making modifications to the vessel, so we have gone through -- where it's the first case, once we get -- their quality management system provides feedback that says, "This is how we've updated our plan review quides to address this issue," we close it out on our If it involves modification to the vessel, once end. we get our inspector out there or notification from the surveyor that it's been addressed on the vessel, then we close it out on our end. Does that help? Yes, very much, thank you. MR. ROTH-ROFFY: CAPT. Does that answer your question? Okay. I think I just have one MR. ROTH-ROFFY: (Inaudible) any process at the MSC to audit the ACS, their plan review processes? We don't conduct formal CAPT. audits of the ACS. We get insight into their quality

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processes through our oversight work. Then as we track through resolution of non-conformities, we get insight into their quality management system, as well, but we don't conduct audits of the ACSs.

MR. ROTH-ROFFY: How do you capture these insights and record it as a learning (Inaudible)? Do you have some sort of an internal process to track performance? I know you (Inaudible) quarterly, but do you have reports that you generate internally to (Simultaneous speaking)?

CAPT. Absolutely. We have the metrics that we track. At the quarterly basis, we review the metrics. "This is how many plans you This is the number of notifications notified us on. that we received. This is the timeliness of those notifications. This is what we selected. the results of those findings." Then we look at last quarter we identified these problems, and then the managers each report on what they're doing to resolve those problems. My engineers report on how that process is going, and that's done. For the last two years, the Marine Safety Center's also produced an internal oversight report that describes to internal Coast Guard leadership what's been going on with the process.

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1	MR. ROTH-ROFFY: If we're interested in
2	seeing some of those reports, those oversight type
3	performance reports (Inaudible)?
4	CAPT. The Marine Safety Center's
5	annual oversight report for the last two years.
6	MR. ROTH-ROFFY: That would be okay to ask
7	for that?
8	CAPT. Sure.
9	MR. ROTH-ROFFY: Okay, thank you. That's
10	all I have, Brian.
11	MR. YOUNG: on the phone.
12	LCDR. No, I don't have any
13	specific questions on this topic.
14	MR. YOUNG: Okay, thanks. We'll go around
15	the room again. I think Lou has something.
16	MR. O'DONNELL: Yes, Louis O'Donnell, ABS.
17	Coming back to non-conformities, you spoke of the
18	numbers of 38 percent, 20 percent in the last couple
19	years. You did say that one of those was related to
20	one specific vessel, and another was related to one
21	problem on multiple number of vessels. Not speaking
22	directly to those problems, but would you say those
23	problems, those non-conformities were attacked and
24	addressed very quickly? I'm trying to (Inaudible) how
25	do I want to ask this? Would you say they were
	I .

addressed in the manner they should have been for 1 2 non-conformances, and have they been working themselves toward a satisfactory resolution? 3 4 CAPT. Lou, on the one vessel that was identified that had a number of non-conformities 5 6 that --7 MR. O'DONNELL: For one specific 8 (Simultaneous speaking)? 9 Right, for one specific CAPT. vessel, that pre-dates my time at the helm of the 10 11 Marine Safety Center. I don't think that we're still carrying over any of those issues. 12 I think that they've all been closed out, so it was closed out over 13 14 a period of about a year. For the other issue that has 15 carried over, one issue, 84 different instances, we have worked very closely with the ACS, in this case, to 16 17 make sure that issue gets resolved. So the ACS has 18 been responsive and has been taking all necessary 19 action, including notifications and oversight of 2.0 corrections onboard the vessels. 21 Louis O'Donnell again, ABS, MR. O'DONNELL: 22 continuing on a little bit with non-conformancies. 23 With the quarterly meetings and the openness in 24 communication between the ACSs, do you say, since maybe 25 in your tenure, or just prior to your tenure, the

communication and sharing information as Mr.
Roth-Roffy asked about the auditing, do you seem to
think there's a better process of that here in the last
couple years, since you've had your controls that you
spoke about in place? The Marine Safety Center's doing
a better job of auditing the ACSs?
CAPT. I would just like to stay
away from the term auditing because I don't
MR. O'DONNELL: Oversighting (Simultaneous
speaking).
CAPT. Oversighting, yes.
MR. O'DONNELL: They're kind of one and the
same a little bit.
CAPT. Okay. I think that both the
ACSs and the Coast Guard have put in a number of
process improvements the Marine Safety Center and
the ACSs have put in a number of process improvements
over the course of the last several years, two to three
years, to improve our ability to oversight the work in
an effective manner. I think that there's been good
cooperation to make that happen, and there's some
tangible results, in terms of dropping the time from
notification, ensuring that things are closed out and
following them through to the end. I think that there
have been several improvements over the course of the

past three years.

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MR. O'DONNELL: Thank you, and you answered my last question. No further questions.

regards to making a revision to a plan, would the authorized class society be able to revise a plan that had been approved without notifying the MSC? Is there any leeway in there for them to make revisions without knowledge of the Coast Guard or Marine Safety Center?

I can't think of a case when CAPT. that would happen. Again, our focus is on -- I can't think of a case when that would be permitted under the Our focus is on -- they are required by the policy to notify us when they have taken approval action on our behalf. If a plan has been modified, such that the approval is no longer valid, then they would be required to re-notify us. I don't mean to introduce any subjectivity on when a plan would be modified, such that the approval's no longer valid, but I don't have a good hard and fast answer for you on that one.

LCDR. Thank you. Regarding the plan, itself, once that plan is approved, the OCMI is notified that the plan -- or copied on that plan review, do they have any obligation under the plan

1	review process to execute anything (Simultaneous
2	speaking)?
3	CAPT. No. If you're talking about
4	ACP, the ACS approves the plan on our behalf. Again,
5	they notify the Marine Safety Center that they've taken
6	action on our behalf. We decide what we're going to do
7	with the oversight. The inspector's responsibility, at
8	that point, is still to do everything that they need to
9	do to issue the certificate to the vessel. There's no,
LO	I guess, hard and fast requirement that I'm aware of
11	with regard to how to handle each plan that they get
12	notified about. Their ultimate goal is to issue a
L3	valid COI to the vessel based on a thorough review that
L4	the as-built arrangements comply with the regulations.
15	LCDR. Under ACP (Inaudible) a
16	responsibility to ensure that the plan is correct and
L7	what is on the plan is on the vessel, or (Inaudible)
18	under ACP, would that be the marine inspector or the
L9	ACS (Inaudible)?
20	CAPT. Under the ACP this is
21	probably a question for Captain . Under ACP, my
22	understanding is
23	PARTICIPANT: Do you want to put him on
24	mute?
25	PARTICIPANT: He needs to put his on mute,
	I and the state of

1	yes.
2	PARTICIPANT: do you want to put your
3	phone on mute?
4	LCDR. Yes, my phone's been on
5	mute.
6	CAPT. Okay, sorry. We picked up
7	somebody else. Sorry, this is Captain Did
8	somebody else join the call?
9	MR. KUCHARSKI: Sorry, Mike Kucharski.
LO	MR. YOUNG: Thank you for identifying
l1	yourself. Mike Kucharski has joined the interview and
L2	is now on mute.
L3	PARTICIPANT: Sorry about that.
L4	CAPT. Mike, sorry, do you mind
15	asking me
L6	LCDR. No, so we were talking about
L7	the responsibility for once your office approves the
18	plan, who is responsible to verify that plan is, in
L9	fact been properly installed (Simultaneous speaking)
20	plan? Is it the ACS or (Simultaneous speaking)?
21	CAPT. I would just take a quick
22	step back, Mike. Under ACP, the ACS is responsible to
23	approve the plan. If we conduct oversight, we conduct
24	oversight on it. But once the ACS has approved the
25	plan, the surveyor is responsible to make sure that the

1	ship matches the plan, and our inspector may or may not
2	conduct oversight on it, per the ACP rules.
3	LCDR. To follow that on, we talk a
4	lot about OCMI responsibilities. Each sector commander
5	is the OCMI. Again, this might have been better
6	(Inaudible) by Captain , but if you could help us
7	out here OCMI authority, what qualifies the
8	individuals that have that authority at the sectors to
9	be an OCMI? Do they have to have a background from the
LO	MSC (Inaudible) marine inspections or could, in theory,
11	somebody from an aviation background hold that
L2	authority, and then could you also if you can share
13	do they have the authority, as an OCMI, to delegate
L4	that to somebody else at the command?
15	CAPT. That would be a question for
L6	Captain Sorry.
L7	LCDR. That's all right.
18	CAPT. I don't oversee the OCMIs, so
L9	PC or CVC.
20	LCDR. I'm good.
21	MR. YOUNG: This is Brian Young, again, with
22	the NTSB. I know you said you review about 4 percent
23	of the total number of plans. Do you have access to
24	all of the plans, if needed?
25	CAPT. We can request any of the

1	plans. Everything that they notify us that they've
2	issued an approval on our behalf, we can request all
3	those plans, but the way that we have to do that is we
4	actually have to notify them and request the plans. We
5	don't have our own there's not a central site where
6	we can just go grab those plans ourselves.
7	MR. YOUNG: Do the ACS maintain those?
8	CAPT. Yes.
9	MR. YOUNG: They do?
10	CAPT. Yes.
11	MR. YOUNG: So you could request them
12	through the ACS?
13	CAPT. Yes.
14	MR. YOUNG: On the phone,
15	anything?
16	LCDR. No, Brian, no further
17	questions right now.
18	MR. YOUNG: Okay. Kucharski, anything
19	for you?
20	MR. KUCHARSKI: No, thank you.
21	MR. YOUNG: Okay, thank you. Anyone else
22	with general questions on plan reviews, while we're at
23	it? If I could maybe shift the discussion specifically
24	to El Faro. Do you know this could have been a
25	question for Captain when the El Faro

1	actually entered ACP?
2	CAPT. It would be a question for
3	Captain or CVC to confirm. There's got to be a
4	matter of record on this in the MISLE case file. My
5	understanding is around 2006.
6	MR. YOUNG: There has been some discussion
7	about some of the modifications that were conducted
8	aboard the ship with the lengthening of the vessel, as
9	well as changing her form RORO to ROLO. Considering
10	those conversions, who would make the determination
11	whether they were considered major conversions or not?
12	CAPT. The Marine Safety Center's
13	responsible for making major conversion or major
14	modification determinations.
15	MR. YOUNG: What is the major effect on that
16	decision?
17	CAPT. What that decision does is
18	the way that regulations are structured is a vessel
19	that is built generally is required to comply with the
20	regulations that were in effect at the time of its
21	build date or keel laying (Phonetic) date. There's a
22	number of different triggering criteria, depending on
23	the different regulations of what you use as the date.
24	It will remain under those regulations
25	unless it undergoes those regulations will remain in

effect unless the vessel undergoes a major conversion/major modification. That's described, as well, in the regulations. It's, as you know, unless a vessel's been -- these regulations apply to a new vessel or a vessel that's undergone a major conversion, major modification, that kind of thing. The impact is that when a major conversion or major modification determination is made, the vessel then needs to be evaluated against different standards, and a decision needs to be taken whether it needs to comply with those standards, as well. There is some quidance in one of the early NVICs on major modification/major conversion that explicitly states -- I think it's NVIC 1081, but it explicitly states that a vessel that undergoes a major conversion or major modification must be brought up to the current standards, where it is reasonable and practicable to do so.

MR. YOUNG: On the lengthening of the El Faro, do you know if that was considered a major conversion?

CAPT. Our records indicate -- this was a lengthening right around 1992 time frame, and our records indicate that was considered to be a major conversion. Marine Safety Center, at that time, was not responsible for major conversion determinations.

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1	We were responsible for overseeing stability review.
2	That was done on our behalf, and we have records from
3	that time about the stability review that would
4	indicate that it was a major conversion.
5	MR. YOUNG: Who would have determined it at
6	that time?
7	CAPT. It would have been what was
8	the predecessor to now CVC, so it would have been
9	Commandant Office of Commercial Vessel Compliance. It
10	would've had a different name, probably MVI at the
11	time, merchant vessel inspections, I think.
12	MR. YOUNG: They would have made that
13	determination at the time?
14	CAPT. Yes, they would've made that
15	determination at the time.
16	MR. YOUNG: Then the second conversion, when
17	they went from RORO to ROLO, do you know if that was
18	considered a major conversion?
19	CAPT. That was not considered a
20	major conversion. This was roughly 2002-2003 time
21	frame?
22	MR. YOUNG: Yes.
23	CAPT. Yes, that was not. Marine
24	Safety Center made that decision.
25	MR. YOUNG: What are the determining factors
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that differentiate between a major conversion -- what 1 2 would --Those factors are set 3 CAPT. Sure. There's four factors associated with 4 out in the law. 5 it, substantially changes dimensions or cargo-carrying 6 capacity, changes vessel type, substantially prolongs 7 the life of the vessel, or otherwise changes the 8 vessel, such that it would be considered a new vessel. 9 The law was intentionally vaque. There is some congressional record about major conversion -- about 10 11 that portion of the law dealing with fishing vessels, where Congress expressed their intent about how those 12 13 things should be evaluated. Requests can be initiated 14 by the OCMI or the OCMI's representative. They can be 15 initiated by the vessel owner. It can be initiated by 16 It can be initiated by one of my staff 17 engineers looking at the project. But each one of 18 those requests is evaluated against those four criteria 19 on its own merits, based on the facts (Inaudible) at 2.0 that time. MR. YOUNG: Based on that decision whether 21 22 there's a modification that's major or minor, if you 23 will, does that change any inspection regime on ACP

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It doesn't change the

CAPT.

vessels?

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1 inspection regime. Irrespective of whether or not 2 you're a major conversion, the ACS still carries out their authorities in the same manner that they would do 3 4 if you were not a major conversion. But what it does is it changes the -- it potentially changes the scope 5 6 of the work that is needed to be completed prior to 7 getting the certificates. 8 MR. YOUNG: One follow-up question. 9 may go back to the previous discussion, when you were talking about non-conformities, and now that we're 10 11 talking about El Faro. Were there ever any 12 non-conformities based on any plan reviews from your 13 office on El Faro? I would defer to our record 14 CAPT. 15 on that. I do not think that there are, but our records probably didn't track -- we didn't track 16 17 non-conformities the same way in 1991-1992 time frame. 18 I would just ask maybe if there's a -- if you guys want 19 to look at the record or whatever of the action that 2.0 we've taken, that will show what the answer is there, 21 but I don't think that there are any non-conformities 22 identified in that record. 23 In terms of plan reviews? MR. YOUNG: 24 In terms of plan review, yes. CAPT. 25 MR. YOUNG: Okay, thank you. That's all I

1 have. Captain? 2 This is Captain CAPT. Coast Guard. Captain, when your staff 3 engineers find the non-conformities during the 4 4 5 percent overview, are those put into MISLE, so that the 6 field can -- field inspectors and our people can see 7 those? 8 No, because it may or may not CAPT. 9 be a non-conformity that requires corrective action 10 It may just require corrective onboard the vessel. 11 action by the class society to update their procedures or work that they're doing on our behalf. 12 In the cases where it does require corrective action on the vessel, 13 I can only speak to probably the last two years' worth. 14 15 I know in one case, though, they were entered into 16 MISLE as a special note to make our inspectors aware. 17 They're routinely not entered into MISLE, but we do 18 have MISLE as a tool to be able to use it. 19 A follow-up question on the 2.0 plans that we do full approval on, the 8,000, do those 21 fall under certain subchapters, or would you say those 22 are mostly deep draft, or what --23 They're primarily small CAPT. 24 passenger vessels, Subchapter T-boats and barges. 25 CAPT. Do you think, with the

majority of our full work being those types of vessels, that it takes away from the experience of our engineers on deeper draft, more complex systems?

That's a difficult question CAPT. to answer because we don't always have the same people working the same issues. There is no doubt that the world of shipping is much more complex today than it was ten years ago, much in the same way that my car is now -- all the special features in it, including my driving preferences, my radio, where my seat is, all that stuff is keyed to my key. When my wife gets in the car with her key, or if she takes my key by accident, she thinks the car's broken because it doesn't do what she expects it to do. Just how cars have gotten more complex, shipping has gotten more We are challenged to keep up with that complexity. You see that complexity more often in the larger ships. This has increased automation in novel designs, in the offshore oil and gas industry. don't see it as frequently in the small passenger vessel industry.

I wouldn't say that we are challenged because our folks know small passengers, they don't know freight vessels. I would say we're more challenged just because of increasing complexity in the

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industry. That said, there are some areas -- and earlier, I mentioned structures -- where we historically have not been strong, and we continue to not be strong in the latest techniques to evaluate structures. We educate our people. We give them a lot of experience.

We go through and give them opportunities to develop those special skills, but it's not something we do many, many times throughout the year, like a class society might. So there are areas where we are less capable, but I wouldn't say it's just (Inaudible) because most of our work is (Inaudible). Maybe it is.

I'm not sure,

CAPT. Then one last question that

-- does the MSC have a criteria in place that would

require a full stability or inclining (Phonetic) of a

vessel over time? Do you make that determination if a

new stability (Inaudible) will be required?

CAPT. Yes, we absolutely do. We have an MTN out there on light ship changes that provide our expectations for when a new stability test is required. It's based on aggregate weight changes that can't be scientifically accounted for, where you can't know the TCG/VCG of those weight changes. So if the aggregate gets above 2 percent, I believe, then a

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1 new stability test is required. 2 Do we rely on the ACSs to CAPT. track the aggregate? 3 The ultimate responsibility 4 CAPT. 5 for that is on the owner/operator, but that information 6 is probably -- yes, so the ultimate responsibility's on 7 the owner/operator. How the ACSs make those determinations, how we make those determinations, it's 8 9 through questioning and asking and stuff like that. 10 would expect, under work done on our behalf, that ACSs 11 would be asking those questions and determining if a 12 new stability test is required. That's all I 13 CAPT. Thank you. 14 have. 15 Captain, Lieutenant LCDR. I have a few questions. 16 Commander 17 just because we just brought it up, the weight change 18 MTN on, I believe it's 495, just for matter of 19 discussion, are you aware, have there been any 2.0 discussions between ABS and the Marine Safety Center, 21 or another ACS with the Marine Safety Center, with 22 regard to a difference of opinion with regard to when 23 weight changes should be evaluated for potential change 24 in weight shift, i.e. minor changes (Inaudible) exclude them, things like that? 25

1 CAPT. I'm not personally aware, My staff may have had conversations about that, 2 but I'm not personally aware of any of those 3 conversations. 4 5 LCDR. Just more on the history I'm not sure what you'd be able to 6 of the El Faro. 7 answer, but I'm just going to try. Can we talk about 8 the rationale behind the decision to take the 9 conversion from RORO to RORO and ROLO and not call it a 10 major conversion? 11 CAPT. That decision was made during the 2002-2004 time frame. We have a few letters on 12 13 that decision in our records. My involvement with that 14 has just been reviewing those letters prior to this 15 interview. I wasn't personally involved in the discussions at that time. But that time frame starts 16 17 with a letter from a law firm representing TOTE and 18 providing information about the conversion. The Marine 19 Safety Center then responded at that time to that 2.0 letter and deemed it to be a major conversion. Then 21 there was another letter from the company that provided 22 additional information, and the focus of the 23 conversation was on the evaluation of increase in cargo 24 carrying capacity. The discussion is characterized in

those letters -- and I can repeat a little bit of it

here today, based on what I've read, but I'll move on just a little bit.

Then there was another determination, I think, from the Marine Safety Center that re-affirmed their earlier decision that deemed it to be still a major conversion, despite the differences in how the owners felt cargo carrying capacity should be viewed and what the Marine Safety Center, their arguments were about how cargo carrying capacity should be reviewed.

Then there was a final letter -- there was another letter, and I believe it to be the final letter, from the owners that reiterated the argument about cargo carrying capacity and pointed to sister vessels that had undergone a similar review, where those reviews had not been characterized as a major conversion/major modification. Then the Marine Safety Center reversed its decision, it appears, based primarily on precedents that these sister vessels had undergone similar conversions and were not deemed to be a major conversion, so the Marine Safety Center then reversed our decision and said that it wasn't a major conversion/major modification. The issue of cargo carrying capacity that was discussed, again, the law in this case is broad. Congressional intent in this area is broad. There's a recognition that major

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conversion/major modification determinations balance two factors at opposite ends of the spectrum.

On the one hand, if you have everything's a major conversion/major modification, then that reduces -- then that eliminates any incentive for owners/operators to effect significant repairs to their vessel to address problems with the vessel. Because if they know every time they're going to go into a yard it's going to be deemed to be a major conversion/major modification, they're just going to run with the problems and find ways around it.

On the other hand, if you never call something a major conversion, major modification, then you don't take the opportunity at the appropriate time to bring the vessel up to newer standards. So the Marine Safety Center balances that spectrum in accordance with the law. They issue on cargo carrying capacity. At the time that this decision was taken, it seemed that the Marine Safety Center heavily valued the importance of the cargo unit as a factor. So if you switched from a container ship that was carrying 500 units to a container ship that was carrying 700 units, that was a 35-40 percent increase in carrying capacity. The owners argued that the determination should be based on the Load Line, and that if you carry -- that

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there's a number of factors that restrict the cargo 1 2 carrying capacity of a container ship, in particular. You can max out on the total number of boxes 3 that you have guides for, and they can all be filled 4 5 with ping-pong balls, they say in their letter, but 6 you've not submerged your Load Line, so the ship still 7 has cargo carrying capacity, or you could max out on 8 the number of containers that you have by filling them 9 with bowling balls or something heavy, and you get to the point where you still have room in the guides, but 10 11 now the ship is submerged to the Load Line, so you 12 can't carry anymore. 13 Then we also know that you can max out on 14 HAZMAT and other areas for container ships. What the 15 owners argued, at that point, was that the real measure for cargo carrying capacity should be whether or not 16 17 you change the vessel such that you alter its buoyant 18 volume and the Load Line assignment to the vessel. To your recollection, 19 LCDR. 2.0 you're saying that you think the Load Line wasn't 21 changed? 22 No, I'm just saying that's CAPT. 23 what the argument was in the letters that were 24 presented to the Marine Safety Center. 25 LCDR. I think I might recall a

two-foot increase in the Load Line mark at that point in time, but we'll check on that.

CAPT. With regard to the major conversion/major modification, this is the arguments that were laid out in the letters. I don't think that those letters were happening at the same time review was going on for other issues. I think we're aware of modifications or a new Load Line assignment that was done by the ACS. I don't think that we have anything in Marine Safety Center records that show any review that we did on that time. I don't know the timing of when those two things happened, compared to the letters that we got.

LCDR. Thank you, sir. Just a You mentioned along the lines of making few more. improvements on tracking for the ACS (Inaudible). Some things happened on the El Faro after that. I'm curious if a notification was received, or any review conducted by the Marine Safety Center. In 2014, there were six 18,000-gallon (Inaudible) added on the El Faro in the first hold, the forward hold on the tank tops. were plan reviewed by ABS. We've seen those now. you know if you were notified of that in any way? We could check the records on CAPT.

I think that we have two notifications

that one,

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from 2014-2015 time frame. I don't know that either of those notifications involved cargo tank.

Along those lines, just LCDR. for purposes of understanding the oversight program, if you did see the ABS -- the way they planned and reviewed this particular fructose tank installation, they looked at just the local structure. They didn't do anything on the stability or Load Line or anything along those lines or look at the underdeck hold structure under those tanks. I'm curious, in the oversight process, if you saw or your staff saw an installation of six 18,000-gallon fructose tanks and you didn't see that follow-up stability, would that normally trigger a question or an oversight, or would you have to be really attentive to notice that?

That's a difficult question to answer because I think that it would fall in the latter category, that you would have to be really attentive to notice that. We don't have a single point of contact that's responsible for everything that happens on a vessel that aggregates all that information and looks and identifies where there might be gaps. We receive a plan; we review that plan to the standards; and we respond to that plan. In some cases, our staff are working the same issues over a period of

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time, and they may identify gaps based on their review
and notify ACSs or notify owners or notify the field.
But we're not set up to look at a project across the
whole spectrum and see what's going to be done. There
is a process through both the ACP enrollment when we
do an ACP enrollment, they'll list the plans that are
required to be submitted and providing that information
when they're going through a modification or shipyard
work or whatever, then it's up to the surveyor or the
OCMI, as well, to question the work that's being done.
LCDR. Captain, just a couple
more. Was the Marine Safety Center made aware of any
modifications going on on the El Faro basically at the
time of the casualty modifying the vessel for the West
Coast trade, adding things to change its service?
CAPT. This would've been done under
ACP, and we would've been notified through the PAS
(Phonetic), which is our internal plan review process
for oversight notification, picking oversight. Like I
said, we have two plans from the 2014-2015 time frame
that we were notified of by the ACS. We'll have to
just pull out the record and see what those two plans
were.
LCDR. This is kind of a reach,
but just wanted to see if you were aware of it at any

point, or your staff was. There was a (Inaudible) structural failure documented on a vessel called the Lurline, which was another Sun Shipbuilding vessel, built with the same bottom plate thickness and (Inaudible) as the El Faro. I'm curious was there ever evidence of a notification from ABS or Coast Guard, as far as that happening on a potential (Inaudible)?

CAPT. I don't know, We'd have to check the vessel record on that.

One of the things that also took place on the El Faro is they have a loading computer supplement called Cargo Max for their Load Line and stability. ABS was asked to review just the stability of the load computer to approve conformance to the TNS (Phonetic) booklet.

That meant that there were some components on the Cargo Max computer, such as flooding analysis and maximum still water bending moment analysis that were done by that Cargo Max computer that went unreviewed by Coast Guard or ABS that the crew would rely on. As far as if the Marine Safety Center was to review a supplemental software piece like that for a Load Line, do you have a stance on whether we should review all items that the crew uses, or just stick to specific contracted items that we're asked to do?

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1	CAPT. what I would offer on that
2	one is we could address that question to one of the
3	naval architects. It's above my level of technical
4	expertise, in terms of the details of that.
5	LCDR. Just one more question.
6	Another practice that we're seeing frequently on the El
7	Faro and sisters is there were times that the
8	scantlings were released on some of the decks, so there
9	are ABS correspondence from the technical offices
10	allowing reduced still water bending moments from the
11	original designs, in order to allow those reduced
12	scantlings for corrosion. I'm curious; is that
13	something that the Coast Guard also does, or is that an
14	ABS-only practice?
15	CAPT. The question, to me, is would
16	the Coast Guard allow reduced scantlings for corrosion
17	over the life of a vessel?
18	LCDR. By reducing design
19	bending moments.
20	CAPT. I could envision scenarios
21	where that would be proposed and accepted to the Coast
22	Guard, directly or through an ACS.
23	LCDR. If you are aware, if we
24	did allow that, would there be any kind of limit to how
25	far we'd allow it to reduce, in terms of how would we
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1	feel comfortable that the crew could check still water
2	bending moments versus the designs to ensure they're
3	still in their limits?
4	CAPT. This is probably a question
5	that's better addressed by one of our naval architects,
6	as well, so I'd be happy to refer you to them or take a
7	question for the record or whatever needs to happen. I
8	guess maybe a point of clarification, I'm not
9	sure how the change and the derating would be verified
10	differently than the original approval would be
11	verified.
12	LCDR. Obviously, I think what
13	normally takes place is trying to ensure any existing
14	known load conditions are going to stay within those
15	parameters. That's the normal way. But their load
16	computer, as I said, has some ability to check those
17	bending moments in, perhaps, a load condition that they
18	weren't expecting. That doesn't get reviewed normally,
19	so that's what I'm asking. Do we care if we get that
20	bending moment close to a normal load condition, and
21	they might not have a review analyzing it?
22	CAPT. That would certainly let's
23	take that one for a naval architect.
24	LCDR. We briefly discussed
25	before, Captain, NVIC 384, NVIC 397, and NVIC 295. Are

1	you aware, during the lifespan of the El Faro, now
2	those NVICs came into play with our interaction with
3	ABS on plan review?
4	CAPT. I'm generally aware, from the
5	time frame. We have a record of our different
6	involvement, and we can make that available. That
7	describes when we did oversight or took action.
8	Because in some cases, ABS did the review. When we're
9	looking back at 384, ABS was responsible for doing the
10	review, but we were responsible for issuing the
11	stability letter. So we have a record that shows our
12	involvement under those different programs.
13	LCDR. Thank you, sir. That's
14	it for me.
15	LCDR. Captain, just a
16	couple of questions. What you described with the
17	letters going back and forth between TOTE with regards
18	to the major modification and the determination that
19	was made sounds a lot like an appeal. Is there an
20	appeal process for that?
21	CAPT. There is an appeal process.
22	There's requests for reconsideration, which goes back
23	to the signing authority, and then there's also an
24	appeal. The appeals go to commandant. I think it's
25	5PS (Phonetic) right now.
J	I .

determination been made to be a major modification, and you say that triggers bringing the vessel into compliance with current regulations (Inaudible) the age of the El Faro, what would that have changed with regards to the vessel's systems? Would the entire vessel had to have come up to the current regulations, or just the area affected by the major modification, or a specific example, would that change the lifeboat arrangement or the firefighting arrangement or anything like that on the vessel?

CAPT. In this case, a major modification determination wasn't made, so I don't have the specifics on what would have changed differently there. I take it kind of as an opinion question about -- and maybe a little bit of a policy question about how folks would be guided. You put a couple things out there.

First of all, irrespective of a major modification determination, when modifications are made to the vessel, there's either a replacement in kind, which is much more limited, or new stuff, new rules, new equipment, new rules. Replacement in kind, maybe you have to repair part of the lifeboat, or maybe you have to replace a part of the falls (Phonetic) or

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something like that, that's replacement in kind. You're doing a modification where you add a new generator set to the vessel with some automation on it for cargo operations, that generator set generally required to meet the latest rules in effect at the time that you put it onboard. Under Coast Guard policy, the major modification/major conversion determination says that this is a major modification determination, but it's still on the OCMI to determine what parts of the vessel need to come up to the latest standards, based on the standard of reasonable and practicable to do so.

That's in Coast Guard policy. It's not in the law about that. There is a very subjective decision, had that been a major modification/major conversion at the time, back in 2004, that the next question would have been to the OCMI, what is reasonable and practicable for them to do as part of this major modification/major conversion?

thank you, Captain. One other question. Outside of the major modification, if a vessel goes out of service and goes into a layup status like the El Faro did for a while, and then loses their certificate of inspection and re-enters service and gets a new certificate of inspection issued, does that trigger any review on behalf of the Marine Safety

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1	Center for it to re-enter service, and would that also
2	trigger any new regulations coming into play with the
3	vessel in upgrading its (Inaudible)?
4	CAPT. I don't know the specifics
5	with regard to El Faro, so I'll talk about a
6	generality. If a vessel goes into layup status and
7	gives up its certificate of inspection, in order to get
8	a new COI back, it's generally regarded as a new
9	vessel, and it must meet the latest standards at the
10	time. That may trigger plan review activity to take
11	place and certainly trigger additional inspection
12	survey and that stuff.
13	LCDR. With regards to the El Faro
14	being in layup status and re-entering service, are you
15	aware of any review that took place on the El Faro as a
16	result of that (Simultaneous speaking)?
17	CAPT. I'm not aware of that at all,
18	
19	LCDR. All right. Thank you. I'm
20	good (Inaudible).
21	MR. ROTH-ROFFY: Tom Roth-Roffy, NTSB.
22	Going back to the MSC determination of a major
23	modification for the El Faro during the lengthening
24	review that we reviewed, if that same
25	CAPT. Sorry, that was during the

1 ROLO 2 MR. ROTH-ROFFY: Correct, 2003, whatever 3 (Simultaneous speaking). Right, the lengthening was 4 CAPT. 5 determined to be a major conversion/major modification. 6 That's fine. Go ahead. Sorry. 7 MR. ROTH-ROFFY: It originally was, then it 8 was reversed, right? 9 The lengthening, as far as I CAPT. know, 1992 time frame, was a major conversion right 10 11 from the start, as far as I know. The only records we have on that is that the lengthening was a major 12 It was the conversion from RORO to 13 conversion. container service that was in the 2000 --14 15 My apologies. MR. ROTH-ROFFY: 16 Okay, sorry. 17 MR. ROTH-ROFFY: I got it mixed up in my 18 mind. You described very well the interaction that went back and forth on that. 19 That was based on some 2.0 precedents that it was brought forward by the owner/operator. If that were to happen today, would 21 22 MSC still maintain its same position, or if there's 23 been other precedents that have occurred since then 24 that perhaps would change the way you would respond to

that kind of a (Inaudible)?

1	CAPT. Difficult for me to answer
2	because we have not reviewed it. We review each case
3	on the facts presented at that time. We do factor in
4	precedents on similar vessels, similar conversion
5	projects into our decision, but I've not evaluated that
6	for today.
7	MR. ROTH-ROFFY: You don't have any general
8	opinion?
9	CAPT. I don't.
10	MR. ROTH-ROFFY: Just for the record, I
11	believe we're going to probably ask for these records
12	on this (Inaudible) determination, if we haven't
13	already, the back-and-forth interchange (Inaudible)
14	submit that through Captain (Inaudible). Just so I
15	understand, is it true that only MSC can make the
16	determination on whether or not a proposed conversion
17	is major or not?
18	CAPT. As of 1996, yes. There is
19	some discrepancy still in the Marine Safety Manual,
20	which has been updated since '96. It says it's the
21	responsibility of doesn't even say CVC, I think.
22	PARTICIPANT: (Inaudible.)
23	CAPT. It's been updated recently.
24	There was a delegation memo, 1996, from, then, the
25	Office of Commercial Vessel Compliance to the Marine

Safety Center. Unfortunately, I don't have a copy of that delegation memo in our records, but we have record that there was a delegation memo. In practice, it hasn't mattered because every major conversion determination has come in to the Marine Safety Center. I think since early '90s, there's been almost 400 major conversion determination requests, probably about -- not quite 50/50 on whether it's been a major conversion or not.

MR. ROTH-ROFFY: The El Faro accident in which a vessel sank for largely unknown reasons, has the MSC gone back and done some sort of a review of its records to see if there's anything that perhaps was overlooked or some problems with any of the records as a result of the accident?

CAPT. We have records management requirements that are issued by commandant and described in the Marine Safety Manual, as well. We have some electronic files, and we have some paper files. We have things that were at the federal records center. After the casualty, we requested those files be returned to the Marine Safety Center, so we got back what was in the boxes that we had there and looked at the electronic records.

We have not done a review for -- we've not

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done a review or analysis of those records for plan review gaps or things like that. We've just done an inventory, so that we can accurately describe what we have. We have engineers that are on the investigation, as well, that are working on analysis and review, based on some of the information that was in our records, based on some of the information that's been collected through the investigation. I think when we did the inventory of our records, because of information that was available to us working on the investigation, it's identified that there were things that were done that we did not know of.

MR. ROTH-ROFFY: How is that information going to be made available to the investigation? Is

MR. ROTH-ROFFY: How is that information going to be made available to the investigation? Is there going to be a report written, or is it just going to be part of the investigation, or do you know?

CAPT. What I would say for any of the casualty analysis work that's going on that Dr.

s (Phonetic) been a part of, my impression is that at some point, the Coast Guard would give a report to the investigation that would say that these are our findings or recommendations or whatever. In terms of the Marine Safety Center's review of the vessel file, that kind of thing, I think that you could request the records that we have and the documentation of the

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1 records that we have. MR. ROTH-ROFFY: That's all I have for now. 2 3 Thank you. 4 MR. YOUNG: On the phone, I do have a couple of quick 5 LCDR. 6 follow-up questions, thank you. Captain, regarding the 7 major modification determination, you spoke to the 8 lengthening. You spoke to the conversation from RORO 9 to containerized cargo. What about the addition of I know that you said MSC may not have 10 fructose tanks? 11 been aware of those additions, but do you believe that would have triggered another major modification 12 13 determination? unfortunately, I would 14 CAPT. 15 just say that we've got to have a full set of facts for each one of those determinations that we make, so I 16 17 have no opinion on that at this point. 18 LCDR. Understood. Okay, Captain, 19 then I just want to clarify, in my mind -- this is a 2.0 follow-on to Commander question about if a major 21 modification determination is made that it is, in fact, a major modification, the whole ship versus just 22 23 certain systems, you mentioned replacing (Inaudible) versus new equipment, new rules. 24 25 If a major modification determination is

made, I'm still just a little bit unclear as to whether that would affect all the systems or just the systems that were affected by the modification. For example, addition of certain weights would probably require new stability review. Would it apply to other systems, such as lifeboats? I'm just still a little bit unclear on that.

doing modification, if it's not a major modification, they're still obliged, unless excluded, to put in the equipment that meets the newest standard. If they're replacing a CO2 system, they don't get to put in a 30-year-old CO2 system onboard the vessel. If they're changing out a component, but still keeping the system in place, then it's more of replacement-in-kind stuff.

For any modification, the general premise is you're making that modification to the newest standards that are in effect at that time. That's the one part of it. The other part is if it is a major modification, then do you have to go back and modify the whole vessel or other parts of the vessel to bring that all up to the latest standard?

The answer to that is that's the presumption, but by Coast Guard policy, there has to be a decision about whether or not it's reasonable or

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practicable to go back and make all those modifications to bring it up to the latest standard. The Coast Guard has told everybody publicly that we're going to use reasonable and practicable as a condition for making that determination on a system-by-system basis of what need to then be updated. Does that help? LCDR. It does. Thank you, sir. MR. YOUNG: Mike Kucharski? Yes, I do, thank you. MR. KUCHARSKI: Ηi, Captain Mike Kucharski here. Did you say earlier that none of the other (Inaudible) class vessels, when they were converted to ROLO service, were considered major conversions? CAPT. If I said that, that's not exactly what our record shows. Our record shows that based on what TOTE submitted to us in the 2002-2004 time frame, there were two other vessels in the class that had gone through the modifications that were not determined to be a major modification determination. Ι don't know what the results are for the whole class. Τ don't actually even know how many vessels are in the There were two sisters that were precedents. Ι don't know the name of them off the top of my head, but their names are in the letters that we have.

Okay, great, thank you.

MR. KUCHARSKI:

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Could you tell us what would be considered -- or maybe 1 2 in your work here at the MSC what you would consider -or what the Coast Guard would consider as departing 3 4 from previous interpretations, what they would look at to make them say, "It wasn't considered in the past, 5 but it would be in the future"? 6 7 I don't know that I have a CAPT. 8 good answer for that. We evaluate each individual fact 9 pattern on these decisions and the facts that are Externally, I guess things could change, 10 before us. 11 precedent could change. Slight adjustments could come out with a different decision. 12 But I can't think of a good example right at the moment of what would be a 13 14 definite change. The law regarding major 15 conversion/major modifications, if that changed, then we would evaluate it differently. 16 17 MR. KUCHARSKI: Great, thank you. A slight variant to that question. At your time at the MSC, are 18 19 you aware of any departure from the MSC quidelines 2.0 which talk about previous decisions and 21 interpretations? Are you aware of any deviation from 22 that? 23 I'm not aware of any, Mike. CAPT. 24 MR. KUCHARSKI: Okay, thank you. Is there 25 any quidance for any of the four prongs of this major

1	conversion you talked about substantially changes
2	the dimensions or carrying capacity, if it changes the
3	type of vessel, substantially prolongs the life, or
4	otherwise changes the vessel that it is essentially a
5	new vessel. Do you have any guidance for any of those
6	four prongs?
7	CAPT. There is some congressional
8	intent. It's a statement in the record there that
9	provides some guidance from Congress on that. There
10	were some existing policies I think it's 1081, but I
11	could be wrong about that that talk about how to
12	make major conversion/major modification
13	determinations. We have an internal guidance that we
14	give to our staff on how to process a major
15	conversion/major modification determination.
16	MR. KUCHARSKI: Okay, great. That
17	congressional intent you're talking about, is a fishing
18	vessel a congressional intent?
19	CAPT. Yes.
20	MR. KUCHARSKI: But to your recollection, is
21	there any other congressional intent, besides fishing
22	vessels?
23	CAPT. Not that I'm aware of.
24	MR. KUCHARSKI: You mentioned letters from
25	owners in weighing against considering it a major

1 conversion. Is that correct? 2 CAPT. The case that I talked about specifically was kind of 2002-2004, maybe 2006 time 3 4 frame, or 2002-2004 time frame, somewhere in there, 5 where there were a number of letters that presented 6 In the first case, it was signed by a law firm, 7 and the second two letters were signed by the owners, 8 requesting reconsideration. That's what we have in our 9 record, and then our responses, as well. MR. KUCHARSKI: Does class have any input on 10 this? 11 12 Not formally. CAPT. The major conversion/major modification determination is outside 13 14 the scope of ACP, so it's something that they come 15 directly to the Coast Guard for. In some cases, when 16 class is acting on our behalf and has information, a 17 plan or something like that that we might need for our 18 review, we may ask them, but this particular issue is 19 set up for the owner/submitter/requester to deal 2.0 directly with the Coast Guard, with the Marine Safety 21 Center, in particular. 22 Thank you, nothing further. MR. KUCHARSKI: 23 MR. YOUNG: Going around the room one last 24 Any further questions? time. 25 MR. ROTH-ROFFY: Sorry, Captain. Tom

	Roth-Rolly. Just a follow-up on this leasible and
2	practical guidance. That goes to the OCMI that makes
3	those sorts of determinations. That sounds pretty
4	subjective to me. Is there any internal guidance or
5	external guidance that is more objective than
6	subjective, for example cost? I don't know what other
7	sorts of objective metrics you could put on these kinds
8	of subjective terms.
9	CAPT. If I understand, if the
10	Marine Safety Center decides that it is a major
11	conversion, as I've described it in Coast Guard policy,
12	then the OCMI has to decide what gets updated, what
13	it's reasonable and practicable to do. I'm not aware
14	of any guidance beyond what's in the MSM or what was in
15	the original NVIC that tells the OCMI provides to
16	the OCMI on how to make that decision.
17	MR. ROTH-ROFFY: So there is some guidance
18	(Simultaneous speaking) refer to?
19	CAPT. There is some discussion.
20	It's a few sentences of discussion.
21	MR. ROTH-ROFFY: Might have to look at that.
22	That's all I have, thank you.
23	CAPT. Captain Captain
24	Coast Guard. One question I have is in regards to a
25	new stability or incline test. Does it have to be a
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1	major conversion before that would be required? Are			
2	there any cases where MSC may say that a test needs to			
3	be conducted based on other factors, like a change in a			
4	Load Line? Are there any hard and fast rules that			
5	would require			
6	CAPT. Sure. We talked about light			
7	ship determinations earlier and the 2 percent weight			
8	changes, aggregate weight changes. This isn't apropos			
9	to this vessel, but a small passenger vessel decides to			
10	change out all their carpet and all their chairs, you			
11	could easily get a greater than 2 percent aggregate			
12	weight change on that. It certainly wouldn't be a			
13	major modification/major conversion, but it would			
14	require a new stability test. You could get into a			
15	situation on different types of vessels, where you			
16	could require a new stability test without having			
17	undergone a major conversion or major modification.			
18	CAPT. How about a change in Load			
19	Line? Is there anything beyond the 2 percent rule that			
20	would necessitate a stability review?			
21	CAPT. If you alter the Load Line,			
22	part of that determination that the Load Line issuing			
23	authority has to do is review the stability of the			
24	vessel. I'm not sure which drives which, though. We			
25	could ask a naval architect that one			

1	CAPT. That's right (Inaudible)			
2	that opportunity. That's all I have.			
3	MR. YOUNG: Anyone else? Are there any			
4	questions we forgot to ask you?			
5	CAPT. I don't think so.			
6	MR. YOUNG: (Simultaneous speaking.) We			
7	appreciate your time, and you have our contact and we			
8	have yours, if there were any further questions, we may			
9	contact you			
10	CAPT. Please.			
11	MR. YOUNG: through Captain			
12	There will definitely be some document requests that			
13	we'll forward through Captain but on behalf			
14	of the NTSB, thank you very much for your time. We			
15	appreciate you fielding our questions.			
16	CAPT. Sure thing. Thanks.			
17	MR. YOUNG: We'll conclude the recording.			
18	It's 1458.			
19	(Whereupon, the above-entitled interview was			
20	concluded at 2:58 p.m.)			
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#### CERTIFICATE

MATTER: El Faro Incident on October 1, 2015

NTSB Accident No. DCA16MM001
Interview of Capt.

DATE: 01-21-16

I hereby certify that the attached transcription of page 1 to 75 inclusive are to the best of my professional ability a true, accurate, and complete record of the above referenced proceedings as contained on the provided audio recording; further that I am neither counsel for, nor related to, nor employed by any of the parties to this action in which this proceeding has taken place; and further that I am not financially nor otherwise interested in the outcome of the action.



#### **NEAL R. GROSS**



# Office of Marine Safety Transcript Errata

Matter: El Faro Ref #: DCA16MM001

CAPT:

Enclosed with this letter is a copy of the transcript of interview for CAPT taken on 1/21/2016. Kindly review this transcript for accuracy and provide corrections, if any, in the attached table.

Thank you in advance for your attention to this matter.

2/1/2016 Date

Brian Young
Major Marine Accident Investigator



# TAKEN ON 1/21/16

LINE NUMBER	CURRENT WORDING	CORRECTED WORDING
		<b>NSUIG</b>
	CAD PILV	No.
	366 A	

If, to the best of your knowledge, no corrections are needed kindly circle the statement "no corrections needed" and initial in the space provided.

NO CORRECTIONS NEED.

Initials

Commanding Officer, USCG Marine Safety Center

Printed Name of Person providing the above information

Signature of Person providing the above information

February 12, 2016

Date

Enclosure (1): LIST OF CORRECTIONS TO TRANSCRIPT OF INTERVIEW FOR CAPT TAKEN ON 1/21/16 (5 Pages).

CAPT

## TAKEN ON 1/21/16

#### Page 1:

- The location of the interview is listed as U.S. Coast Guard Office, Portland, Maine. The interview actually took place at U.S. Coast Guard Headquarters, Washington, D.C.

#### Page 3:

- Line 21: (Inaudible) should be "Structures and Stability Group."

#### Page 4:

- Line 2: (Inaudible) should be "Engineering"

#### Page 5:

- Line 8: (Inaudible) should be "and so as"
- Line 24: sentence should start with "During" vice "On"
- Line 24: missing word after reviews, should read "reviews that"

## Page 6:

- Line 1-6: I misspoke about the facts during this section and carried that mistake onto page 17 lines 7 and 8 and page 23 lines 6 and 7. The Marine Safety Center reviewed over 18,000 plans in 2014 and over 19,000 plans in 2015. In each of those years, the Authorized Class Societies sent us an ADDITIONAL 10,000-11,000 notifications for plans they approved on our behalf. Thus the work performed by the Authorized Class Societies is IN ADDITION to the plans that Marine Safety Center reviewed. Marine Safety Center can provide the exact statistics for the record, if requested. Please note that although there is not a constant correlation between the number of notifications and the number of plans reviewed by an ACS (one ACS notification might include multiple plans) for the purposes of understanding the difference in work volume, the comparison is still useful. Text should read:
- Line 1: "About 10,000 --" should be "In addition, about 10,000 reviews --"
- Line 4: "8,000" should be "18,000"
- Line 5: "8,000" should be "18,000"
- Line 7: (Inaudible) should be "first, and we do"

## Page 7:

Line 22: Clarification of my statement so that it is not misperceived in future readings... "at the field level to verify that that those plans comply." should be "at the field level to verify that that the vessel construction complies with the approved plans." Page 8:

Line 9: Clarification of my statement for future readings..."plans that we" should be "plans that we decided to"

Line 18: The Marine Safety Center received 11,370 notifications from Authorized Class Societies in 2014.

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## Page 9:

Line 7 - 10: Clarification of my statement for future readings...

"When we identify discrepancies – I guess when we select something for oversight, we can either do no oversight on it – and we could come up with a finding of no oversight for a number of reasons. This process" should read "When we select something for oversight, we can either do oversight or no oversight on it – and we could come up with a finding of no oversight for a number of reasons. The oversight reporting process"

## Page 10:

Line 8: change review to reviewer

- Line 17: reads "vessel (inaudible) vessels, themselves." Should read "vessel itself or vessels themselves."

## Page 11:

- Line 11: "officers maybe" should read "officers that maybe"
- Line 20: "develop" should be "developed"

#### Page 12:

- Line 17: "We have" should be "We have had"
- Line 22: I misspoke about the facts, "qualification board" should be "qualification process". Some of the Marine Safety Center's internal qualifications do not go through a board process and are instead determined by the responsible Branch Chief.

#### Page 13:

- Line 14: (Inaudible) should be "cadre"

#### Page 14:

- Line 9: "0403" should read "04-03"
- Line 11: "0403" should read "04-03"

#### Page 15:

- Line 1: "295" should be "02-95"
- Line 8: "1082" should be "10-82"
- Line 11: "384" should be "03-84"
- Line 11: "397" should be "03-97"
- Line 12: "the" should be "third"

#### Page 16:

- Line 19: (Inaudible) should be "rub"
- Line 21: (Inaudible) should be "Thank you, Captain.

## Page 17:

- Line7-8: Per page 6 line 1-6, I misspoke about the facts. "year, about 10,000 of those go through an ACS beforehand." Should be "year, an additional 10,000-11,000 reviews go through the ACS each year."
- Line 20" "on conformities" should be "or non-conformities"



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## Page 20:

- Line 23: "295" should be "2-95"

#### Page 21:

- Line 12: "of the" should be "other"

#### Page 22:

- Line 18: "1092" should be "10-92"
- Line 18: "1092" should be "10-92"
- Line 21: "1092" should be "10-92"
- Line 23: "1092" should be "10-92"
- Line 24: "1092" should be "10-92"

## Page 23:

- Line 6: (Inaudible) should be "plan"
- Line 6-7: See misstatement on page 6 regarding characterization of quantity of work performed by ACS. "which 10,000 go to ACS first, of which—of those 10,000" should be "an additional 10,000-11,000 are reviewed on your behalf by an ACS, of which—of those 10,000-11,000"
- Line 8: (Inaudible) should be "review on"
- Line 13: (Inaudible) should be "you find."
- Line 23: (Inaudible) should be "you are"

#### Page 24:

- Line 20: "1082" should be "10-82"
- Line 24: "reviews" should be "reviewers"

#### Page 25:

- Line 6-7: "you do it in 4 percent" should be "you are doing 4 percent"

#### Page 26:

- Line 4: "modifications what" should be "modifications of what"

#### Page 27:

- Line 9: "NTN-0403" should be "MTN 04-03"

## Page 29:

- Line 22: (Inaudible) should be "Do you have"

#### Page 30:

- Line 8: (Inaudible) should be "meet"
- Line 10: (simultaneous speaking) should be "kind of track?"

#### Page 31:

- Line 3: (Inaudible) should be "what would those be called?"

#### Page 35:

- Line 1-2: (Simultaneous speaking) should be "on the approved plan?"
- Line 15: (Inaudible) should be "the OCMI, the marine inspector doesn't have necessarily"
- Line 19: (Inaudible) should be "responsibility."

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## Page 37:

- Line 6: (Inaudible) should be "served"
- Line 10: (Inaudible) should be "or from"

## Page 40:

- Line 3: "It's, as you know," should be "It says, you know,"
- Line 13: "1081" should be "10-81"

#### Page 42:

- Line 19: (Inaudible) should be "before us"

#### Page 44:

- Line 20: See page 6 line 1-6, "8,000" should be "18,000"

#### Page 45:

Line 23-24: Clarification of my statement so that it is not misperceived in future readings... "because our folks know small passengers they don't know freight vessels." should be "because our folks work more with small passengers vessels than freight vessels."

#### Page 46:

- Line 4: "be strong" should be "be as strong"
- Line 18: (Inaudible) should be "or inclining"

#### Page 47:

- Line 18: "495" should be "04-95"
- Line 24: "weight shift" should be "light ship"
- Line 24: (Inaudible) should be "being able to"

#### Page 50:

- Line 17: "They" should be "The"

#### Page 52:

- Line 11: "on" should be "at"
- Line 16: (Inaudible) should be "plan reviews."
- Line 20: (Inaudible) should be "fructose tanks that were"

#### Page 54:

- Line 7: "PAS" should be "PRAS"

#### Page 55:

- Line 1: (Inaudible) should be "Class 1"
- Line 5: (Inaudible) should be "stiffening"
- Line 7: (Inaudible) should be "sister?"
- Line 15: "TNS" should be "T&S (Trim and Stability)"

#### Page 56:

- Line 8: "released" should be "reduced"
- Line 23: "If you are aware" should be "Are you are aware"



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#### Page 57:

- Line 25: "NVIC 384, NVIC 397, and NVIC 295" should be "NVIC 3-84, NVIC 3-97, and NVIC 2-95."

#### Page 58:

- Line 9: "384" should be "3-84"
- Line 25: "5PS" should be "5-PS"

## Page 59:

- Line 4: (Inaudible) should be "knowing"

#### Page 60:

- Line 13: "There" should be "That"
- Line 15: "that" should be "then"

#### Page 61:

- Line 3: (Inaudible) should be "recency with the regulations"

#### Page 62:

- Line 25: (Inaudible) should be "application"

#### Page 63:

- Line 12: (Inaudible) should be "MSC"
- Line 14: (Inaudible) should be "
- Line 21: "responsibility of doesn't even say CVC" should be "responsibility of CVC doesn't even say MSC"

### Page 65:

- Line 19: " should be

#### Page 66:

- Line 23: (Inaudible) should be "in kind"

#### Page 68:

- Line 11: (Inaudible) should be "Ponce"

### Page 70:

- Line 10: "1081" should be "10-81"